1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Diphenyl ether Product name

Classification of the substance or mixture

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008 Serious eye damage (Category 1) Chronic aquatic toxicity (Category 2)

According to European Directive 67/548/EEC as amended.

Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the

Label elements

aquatic environment.

Pictogram

P280

Formula

101-84-8

Molecular Weight

Signal word Danger Hazard statement(s)

H318 H411

Causes serious eye damage. Toxic to aquatic life with long lasting effects.

Precautionary statement(s) P273 Avoid release to the environment.

Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove P305 + P351 + P338

contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xi **Irritant** N Dangerous for the environment

R-phrase(s) R41 Risk of serious damage to eyes. R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and

S39 Wear eye/face protection. S60 This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data S61 sheets.

seek medical advice.

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Phenyl ether

202-981-2

CAS-No. EC-No. Classification Diphenyl ether

170,21 g/mol

C12H10O

Diphenyl oxide

2; H318, H411 Xi, N, R41 - R51/53 For the full text of the H-Statements mentioned in this Section, see Section 16.

Eye Dam. 1; Aquatic Chronic

Concentration

4. FIRST AID MEASURES

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of eye contact

5. FIRE-FIGHTING MEASURES

Personal precautions

environment must be avoided.

containers for disposal.

7. HANDLING AND STORAGE

Conditions for safe storage

Personal protective equipment

Respiratory protection

(EU).

Hand protection

Eye protection

the end of workday.

Colour

Odour

Safety data

рΗ

Melting point

Boiling point

Lower explosion limit

Upper explosion limit

Vapour pressure

Water solubility

Materials to avoid

Acute toxicity

Severe eye irritation

Germ cell mutagenicity

no data available

no data available

Carcinogenicity

no data available

no data available

Aspiration hazard no data available

Additional Information

12. ECOLOGICAL INFORMATION

RTECS: KN8970000

Toxicity to fish

Toxicity to daphnia

Bioaccumulative potential

Indication of bioaccumulation.

PBT and vPvB assessment

Bioaccumulation

Mobility in soil no data available

no data available

Other adverse effects

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

UN-Number: 3077 Class: 9

UN-Number: 3077 Class: 9

Further information

Aquatic Chronic

N

Xi

R41

R51/53

Further information

Marine pollutant: Marine pollutant

ADR/RID

IMDG

IATA

Toxic to aquatic life.

Toxicity

Strong oxidizing agents

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

LD50 Dermal - rabbit - > 5.000 mg/kg

Respiratory or skin sensitization

LD50 Oral - rat - 3.370 mg/kg

Density

General advice

If inhaled

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

6. ACCIDENTAL RELEASE MEASURES

Wear self contained breathing apparatus for fire fighting if necessary.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. **Environmental precautions**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Precautions for safe handling

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methods and materials for containment and cleaning up

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator

type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

standard EN 374 derived from it.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

white

unpleasant

no data available

25 - 27 °C - lit.

259 °C - lit.

0.8 % (V)

1,5 % (V)

1.013 hPa at 257,9 °C

1,073 g/mL at 25 °C

< 1 hPa at 20 °C

no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

government standards such as NIOSH (US) or EN 166(EU). Skin and body protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

Appearance crystalline Form

115 °C - closed cup Flash point Ignition temperature 618 °C

9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient: log Pow: 4,2 n-octanol/water 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. **Conditions to avoid** no data available

Skin corrosion/irritation Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/eye irritation

probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. **Ingestion** Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes Causes eye burns. Signs and Symptoms of Exposure

and other aquatic invertebrates. Persistence and degradability

Bioconcentration factor (BCF): 470

Oncorhynchus mykiss (rainbow trout) - 7 d

prolonged or repeated exposure can cause:, Dermatitis, Liver injury may occur., To the best of our knowledge,

LC50 - Leuciscus idus (Golden orfe) - 3,0 mg/l - 48,0 h

EC50 - Daphnia magna (Water flea) - 0,67 mg/l - 48 h

LC50 - Cyprinodon variegatus (sheepshead minnow) - 1,0 - 2,4 mg/l - 96,0 h

the chemical, physical, and toxicological properties have not been thoroughly investigated.

13. DISPOSAL CONSIDERATIONS **Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional

and burn in a chemical incinerator equipped with an afterburner and scrubber.

waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent

Packing group: III

Packing group: III

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diphenyl ether)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diphenyl ether)

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings

UN-Number: 3077 Class: 9 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Diphenyl ether)

15. REGULATORY INFORMATION This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 16. OTHER INFORMATION

containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Eye Dam. Serious eye damage H318 Causes serious eye damage. H411

Toxic to aquatic life with long lasting effects. Dangerous for the environment **Irritant** Risk of serious damage to eyes.

Chronic aquatic toxicity

Text of H-code(s) and R-phrase(s) mentioned in Section 3

environment.

For R&D use only. Not for drug, household or other uses. WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any www.lookchem.com damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic